

03040204-090
(Brunson Swamp)

General Description

Watershed 03040204-090 is located in Horry County and consists primarily of **Brunson Swamp** and its tributaries. The watershed occupies 53,116 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Rains-Lynchburg-Yonges-Goldsboro-Nansemond series. The erodibility of the soil (K) averages 0.17; the slope of the terrain averages 1%, with a range of 0-2%. Land use/land cover in the watershed includes: 35.6% forested land, 23.5% scrub/shrub land, 20.8% agricultural land, and 20.1% forested wetland (swamp).

Brunson Swamp accepts drainage from Chinnners Swamp (Rabon Branch, Mill Branch, Savannah Creek, Big Swamp, Schoolhouse Branch, Evans Branch), Spring Swamp (Holly Hill Branch), and Palmetto Swamp (Little Palmetto Swamp, Ratan Branch) before draining into the Little Pee Dee River. There are a total of 94.3 stream miles and several ponds (totaling 79.7 acres) in this watershed. All are classified FW with the exception of Chinnners Swamp, which is classified FW* (dissolved oxygen not less than 4.0 mg/l and pH between 5.0 and 8.5).

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
PD-177	S	FW*	CHINNERS SWAMP AT S-26-24 1.9 MILES SSE AYNOR
PD-352	W	FW*	CHINNERS SWAMP AT GUNTERS ISLAND ROAD OFF S-26-99

Chinnners Swamp - There are two monitoring sites along Chinnners Swamp. This is a blackwater swamp system, characterized by naturally low dissolved oxygen concentrations. Although dissolved oxygen excursions occurred at both sites, they were typical of values seen in blackwater swamps and were considered natural, not standards violations. At the upstream site (**PD-177**), aquatic life uses are fully supported, and a significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are fully supported. At the downstream site (**PD-352**), aquatic life uses are also fully supported, but recreational uses are partially supported due to fecal coliform bacteria excursions.

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME	PERMIT #
FACILITY TYPE	STATUS
TOWN OF AYNOR DUMP	-----
-----	CLOSED

Water Supply

Portions of this watershed fall within the Waccamaw Capacity Use Area and large groundwater uses must be reported (see Capacity Use Program p.23).

Growth Potential

There is a low potential for growth for most of this watershed. An exception is the U.S. Hwy. 501 corridor that bisects the watershed. This heavily traveled road connects I-95 with Myrtle Beach, and an increase in residential and commercial growth is likely. The Town of Aynor has been connected to the Grand Strand Water and Sewer Authority Conway wastewater plant which should encourage growth. The northeastern edge of the watershed contains water infrastructure and should see a moderate increase in development. The remainder of the watershed is rural with agricultural, timberlands, and residential areas.